

6/29/2007

P:\06Files\060245\02_W001_GhostHollow_Br_Plans\SN_001_0014.dgn

B.M. - Chisled square on northwest wingwall of S.N. 001-0014. Elevation 488.946

Existing Structure- S.N. 001-0014 was built in 1972 at Sta. 114+75 as FAP 36, Section PBI. The structure is a single span bridge consisting of eleven reinforced concrete deck beams, each 3' wide by 17" deep. The deck has a 5" minimum reinforced concrete wearing surface, constructed in 2003. The abutments are closed type and founded on untreated timber piles. The bk. to bk. abutments dimension measures 42'-10 1/2" while the O.-O. width measures 33'-0". The structure is skewed 35 degrees left ahead. The structure will be stage constructed.

No salvage

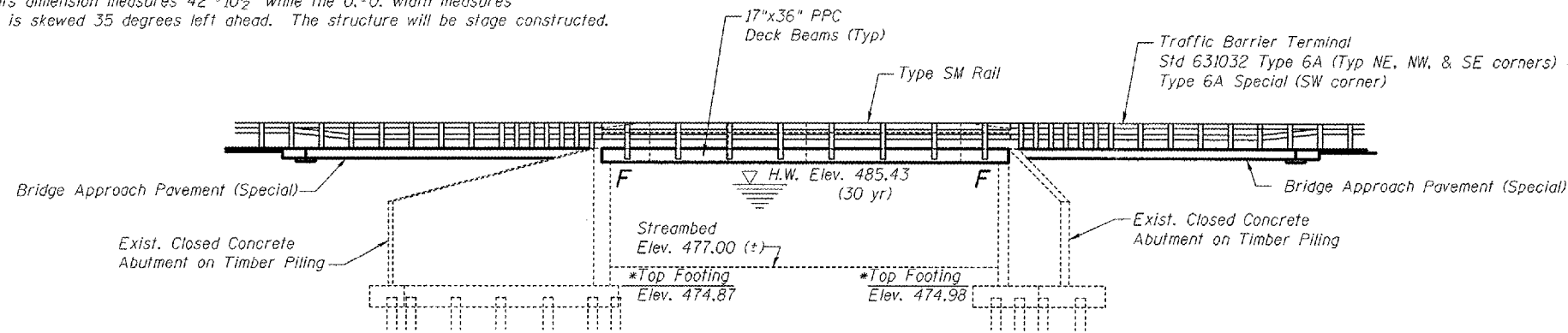
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 502	SECTION 54BR-1	COUNTY ADAMS	TOTAL SHEETS 28	SHEET NO. 15	SHEET NO. 1 9 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

Contract #72873

INDEX OF SHEETS

1. General Plan & Elevation
2. General Notes and Details
3. Stage Construction Details
4. Superstructure
5. Superstructure Details
6. Steel Railing, Type SM
7. Bar Splicer Assembly Details
8. Temporary Concrete Barrier for Stage Construction
9. Abutment Repair Details



* Elevations from existing plans

ELEVATION



SCOPE OF WORK

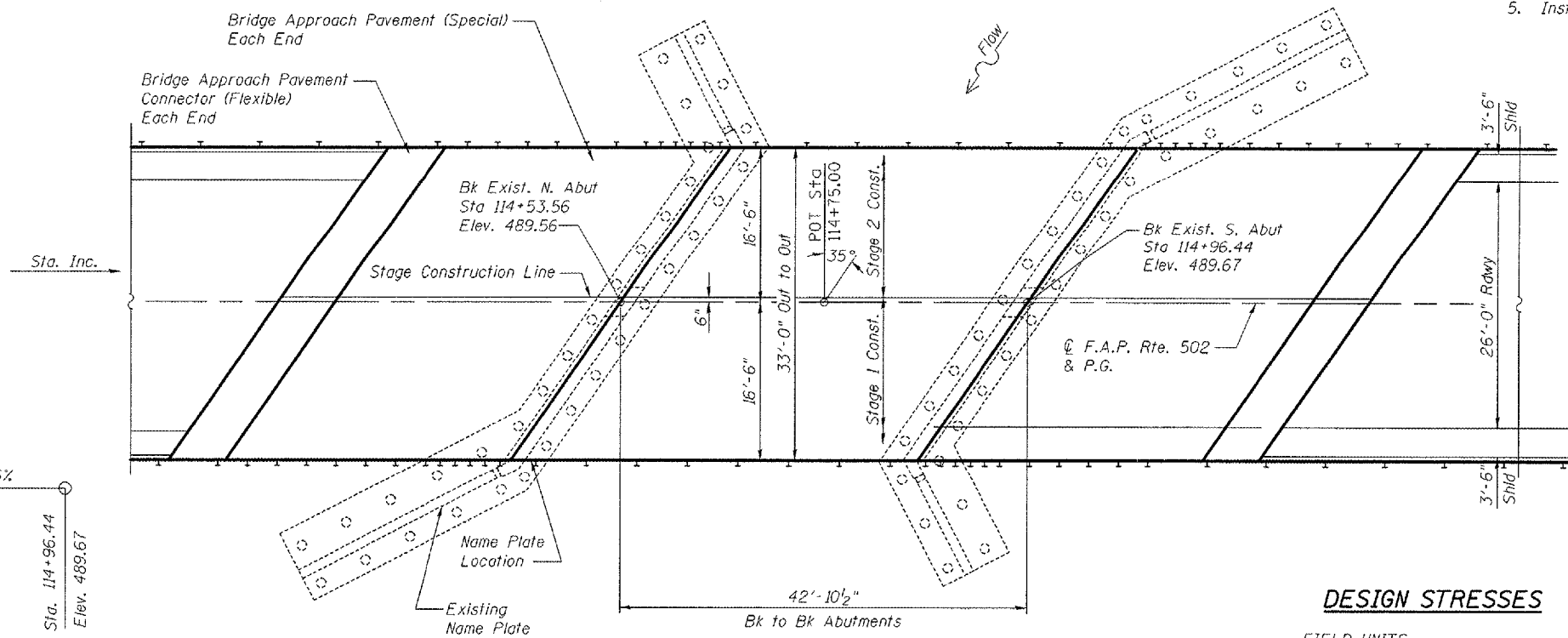
1. Remove existing 5" concrete wearing surface, 17" deck beams, and steel railing.
2. Repair abutments and wingwalls.
3. Install new deck beams.
4. Place new concrete wearing surface.
5. Install new bridge rail.

STATION 114+75
 REBUILT 200_ BY
 STATE OF ILLINOIS
 FAP RTE 502 - SEC 54BR-1
 LOADING HS20
 STRUCTURE NO. 001-0014

NAME PLATE

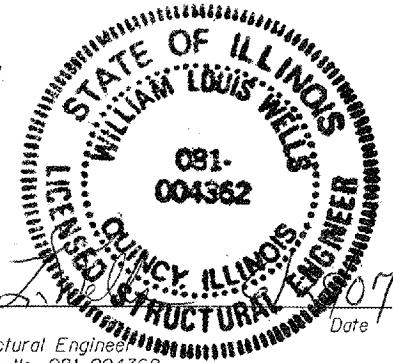
See Std. 515001

Existing Name Plate shall be cleaned and relocated adjacent to new Name Plate. Cost included with Name Plates.

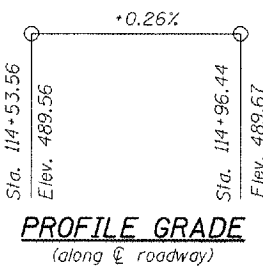


APPROVED
For Structural Adequacy Only

Ralph E Anderson
Engineer of Bridges & Structures (TSJ)



William L. Wells
Date
William L. Wells
Licensed Structural Engineer
State of Illinois No. 081-004362
License Expires 11/30/08



DESIGNED - WLW
CHECKED - ADL
DRAWN - BGJ
CHECKED - ADL

PLAN

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications - 17th ed.

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

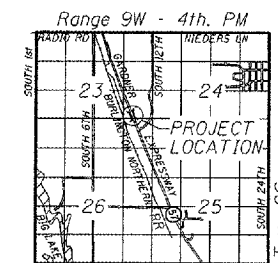
DESIGN STRESSES

FIELD UNITS

- $f'_c = 3,500$ psi
- $f'_ci = 5,000$ psi (Concrete Wearing Surface)
- $f_y = 60,000$ psi (Reinforcement)
- $f_y = 50,000$ psi (Structural)

PRECAST PRESTRESSED UNITS

- $f'_c = 5,000$ psi
- $f'_ci = 4,000$ psi
- $f'_s = 270,000$ psi (1/2" ϕ low lax. strands)
- $f'_{si} = 201,960$ psi (1/2" ϕ low lax. strands)



LOCATION SKETCH

GENERAL PLAN & ELEVATION
F.A.P 502 ROUTE IL 57 SEC. 54BR-1
ADAMS COUNTY
STATION 114+75.00
STRUCTURE NO. 001-0014